



सी एस आई आर-केन्द्रीय यांत्रिक अभियांत्रिकी अनुसंधान संस्थान CSIR - CENTRAL MECHANICAL ENGINEERING RESEARCH INSTITUTE

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद / Council of Scientific & Industrial Research)
महात्मा गांधी एवेन्यू, दुर्गापुर – 713 209 (पश्चिम बंगाल) / Mahatma Gandhi Avenue, Durgapur - 713 209, (West Bengal)

विज्ञापन संख्या / Advertisement No. 04/2018

Last Date for submission of online application: 07-01-2019 up to 5:00 PM

Last Date for Receipt of the hard copy of online application: 17-01-2019 up to 5:30PM

A unique opportunity for research career in Engineering & Technology

CSIR-CMERI, Durgapur is a premier Institute under the Council of Scientific and Industrial Research (CSIR), involved in multidisciplinary R&D programmes of both basic and applied nature across scientific disciplines for economic, environmental and societal benefits for the people of India.

As the only national laboratory dedicated to mechanical engineering, the core mission of the CSIR-CMERI is to conduct research and develop cost effective and value added technologies in mechanical engineering and allied domains. Yet another element of CSIR-CMERI's mission is to contribute significantly to national skill development initiatives for sustainable empowerment. CSIR-CMERI envisages emerging as a global R&D institute having confidence of industries and visibility to society in mechanical engineering sciences and technologies.

The research activities of CSIR-CMERI extends over **Advanced Design and Analysis; Robotics & Mechatronics, Advanced Manufacturing and Metrology, Electronics & Embedded Systems, Drives & Control; Near Netshape Manufacturing, Micro-Systems Technologies; Precision Farm Machinery; Advanced Functional Materials, NDT and Condition Monitoring, Tribology; Product and Process Design, Renewable Energy Technologies.**

CSIR-CMERI Centre of Excellence for Farm Machinery, Ludhiana is an Extension Centre of CSIR-CMERI, Durgapur. The present priority areas of research of the Centre are: Precision Farm Machinery, Biofuel, Industrial Machinery, Engineering Design & Analysis. A number of challenging projects in these areas are currently on-going.

The Institute is looking for dynamic and creative Indian researchers having excellent academic record and interested in Product Development, Technology Innovation and Translational Research in the above broad areas as Scientists at . The posts are primarily meant for CSIR-CMERI Hqrs at Durgapur (West Bengal) and CSIR-CMERI Centre of Excellence for Farm Machinery at Ludhiana (Punjab) as indicated. However, the incumbent shall be liable to be transferred from / to the Institute Centre CSIR-CMERI CoEFM, Ludhiana and vice versa and to any of the CSIR Labs/Instts. including its centres as per the need in public interest. The eligible candidates may apply for the following positions online through the Institute website : www.cmeri.res.in.

Designation	No. of Posts & Reservation status	Pay Scale	*Total Emoluments	**Upper Age Limit not exceeding (as on the last date of online application)
Senior Scientist	03 [2 UR, 1 post reserved for PWD (deaf and hard of hearing)]	Level – 12 ₹78800-209200	₹1,02,574/-	37 years
Principal Scientist	03 [UR]	Level – 13 ₹131100-215900	₹1,57,949/-	45 years

*Total Emoluments means approximate total emoluments per month on minimum of scale including House Rent Allowance as per rules stationed at Durgapur, West Bengal / Ludhiana, Punjab.

** Please see age relaxation under Relaxation column.

Category – I :: Name of post : Senior Scientist

[Lateral Level Positions : 03 posts {UR}]

Post Code : 180401 (for CSIR-CMERI, Durgapur Hqrs) :: 01 post {Reserved horizontally for Persons with Benchmark Disabilities (deaf / hard of hearing)}			
Position with Pay	Essential Educational Qualification & Experience	Desirable Experience	Job Specification
<p align="center">Sr. Scientist</p> <p>Pay : Level 12 of Pay Matrix ₹78800-209200</p>	<p>ME/M-Tech in Computer Science / Computer Science and Engineering / Computer Science and Automation / Information Technology with min 03 years relevant research / industrial post qualification experience, in the areas of Computer Networking/ Cloud Computing/ IoT/ Cyber Physical Systems (CPS) having BE/B.Tech in Computer Science / Computer Science and Engineering / Computer Science and Automation / Information Technology</p> <p align="center">OR</p> <p>PhD in Engg in the areas of Computer Networking/Cloud Computing, /IoT /Cyber Physical Systems (CPS) with BE/B.Tech in Computer Science / Computer Science and Engineering / Computer Science and Automation / Information Technology</p>	<p>Hands on experience in web based software development using JAVA, .Net, PYTHON, Visual Studio etc. is desirable. The candidates having industrial and research experience in Product Development / Technology Innovation / Translational Research in the areas Computer Networking / Cloud Computing / IoT / Cyber Physical Systems (CPS) will be given preference.</p>	<p>The incumbent will be leading / be the part of a team of self motivated scientists in the areas of research and execution of Computer Networking / Cloud Computing / IoT / CPS related activities.</p>
Post Code : 180402 :: 01 post (for CSIR-CMERI- CoEFM, Ludhiana, Punjab)			
Position with Pay	Essential Educational Qualification & Experience	Desirable Experience	Job Specification
<p align="center">Sr. Scientist</p> <p>Pay : Level 12 of Pay Matrix ₹78800-209200</p>	<p>M.E/ M. Tech. in Agricultural Engineering with specialization in Farm Machinery & Power Engineering with min 3 years of relevant research / industrial experience in the areas of Design and Prototyping of Farm Machinery having B.E./ B.Tech in Agricultural Engineering</p> <p align="center">OR</p> <p>Ph.D in Engg. in the areas of Design and Prototyping of Farm Machinery having BE/B.Tech in Agricultural Engineering</p>	<p>Product Development / Technology Innovation / Translational research in the area of Design and Prototyping of Farm Machinery. Industrial and research experience in the areas of precision agriculture will be given preference.</p>	<p>The incumbent will be leading / be the part of a team of self motivated scientists in the areas of Product Development / Technology Innovation / Translational research in Farm Machinery.</p>
Post Code : 180403 :: 01 post (for CSIR-CMERI, Durgapur Hqrs)			
Position with Pay	Essential Educational Qualification & Experience	Desirable Experience	Job Specification
<p align="center">Sr. Scientist</p> <p>Pay : Level 12 of Pay Matrix ₹78800-209200</p>	<p>ME / M.Tech in Mechanical Engineering with specialization in Design / Design Management OR M.Des in Industrial Design / Product Design / Industrial Product Design, with min 3 years of relevant research / industrial experience, having BE / B.Tech in Mechanical Engineering or 4 year full time B.Des in Industrial Design/ Product Design / Industrial Product Design</p> <p align="center">OR</p> <p>Ph.D in Engg. / PhD in Design in the areas of Engineering Design / Industrial Design / Product Design / Industrial Product Design having BE / B.Tech in Mechanical Engineering or 4 year full time B.Des in Industrial Design/ Product Design / Industrial Product Design</p>	<p>Development of commercial engineering products with proven industrial and research track-record, value engineering and design management. Experience in the areas of aesthetics design of finished prototypes for commercialization / translational research / energy efficient design of products will be given preference.</p>	<p>The incumbent will be leading / be the part of a team of self motivated scientists in the areas / translational research/ value engineering/ design management / aesthetics design of finished prototypes for commercialization / energy efficient design of products.</p>

Category – II :: Name of post : Principal Scientist

[Lateral Entry Level Positions : 03 posts (UR)]

Post Code : 180404 :: 01 post (for CSIR-CMERI- CoEFM, Ludhiana, Punjab)			
Position with Pay	Essential Educational Qualification & Experience	Desirable Experience	Job Specification
<p align="center">Principal Scientist</p> <p>Pay : Level 13 of Pay Matrix ₹123100-215900</p>	<p>Ph.D in Engg. with min 3 years of relevant research / industrial experience in the areas of CAD/CAM / metal cutting /metal forming / precision manufacturing / prototype development / manufacturing technology development having BE / B.Tech in Mechanical Engineering.</p>	<p>Product Development / Technology Innovation / Translational Research in the area of prototyping of machinery. Industrial and research experience in the area of precision manufacturing / prototype development / manufacturing technology development, will be given preference.</p>	<p>The incumbent will be leading / be the part of a team of self motivated scientists in the areas of Product Development / Technology Innovation / Translational Research in the areas of precision manufacturing / prototype development / manufacturing technology.</p>
Post Code : 180405 :: 01 post (for CSIR-CMERI, Durgapur Hqrs)			
Position with Pay	Essential Educational Qualification & Experience	Desirable Experience	Job Specification
<p align="center">Principal Scientist</p> <p>Pay : Level 13 of Pay Matrix ₹123100-215900</p>	<p>Ph.D in Engg. / PhD in Design with min. 3 years of relevant research / industrial experience in the areas of Engineering Design / Industrial Design / Product Design / Industrial Product Design having BE / B.Tech in Mechanical Engineering or 4 year full time B.Des in Industrial Design / Product Design / Industrial Product Design</p>	<p>Development of commercial engineering products with proven industrial and research track-record, value engineering and design management. Experience in the areas of aesthetics design of finished prototypes for commercialization / translational research will be given preference.</p>	<p>The incumbent will be leading / be the part of a team of self motivated scientists in the areas of aesthetics design of finished prototypes for commercialization / translational research / value engineering / design management.</p>
Post Code : 180406 :: 01 post (for CSIR-CMERI, Durgapur Hqrs)			
Position with Pay	Essential Educational Qualification & Experience	Desirable Experience	Job Specification
<p align="center">Principal Scientist</p> <p>Pay : Level 13 of Pay Matrix ₹123100-215900</p>	<p>Ph.D in Engg. with min 3 years of relevant research / industrial experience in the areas of Manufacturing having BE / B.Tech in Mechanical Engineering</p>	<p>Development of sustainable manufacturing process technology with energy conservation / less wastage. Translational research in manufacturing process technologies with minimal environmental impact and recyclability will be given preference.</p>	<p>The incumbent will be leading / be the part of a team of self motivated scientists in the areas of translational research / value engineering of manufacturing process technologies towards Green Manufacturing.</p>

NOTE: Wherever PhD in Engineering or Science is not mentioned in the degree certificate, the candidates having PhD degree with B.E./B.Tech or M.E./M. Tech in engineering will be considered as PhD in Engineering.

General Information and Conditions:

1. Benefits under Council Service:

- a. These posts carry usual allowance i.e. Dearness Allowance (DA), House Rent Allowance (HRA), Transport Allowance (TA) etc. as admissible to the Central Government employees and as made applicable to CSIR. Council employees are also eligible for accommodation of their entitled type as per CSIR allotment rules depending on availability in which case HRA will not be admissible.
- b. In addition to the emoluments indicated against posts, benefits such as reimbursements of Medical Expenses, Leave Travel Concession and House Building Advance are available as per rules of CSIR.
- c. Scientists in CSIR are also permitted to undertake consultancy and sponsored R&D project activities. These activities give them scope to earn consultancy fee and honorarium as per guidelines governing these activities. Opportunities also arise for foreign deputations for training/presentation of papers/specific assignments etc.
- d. CSIR provide excellent opportunities to deserving candidates for career advancement under Assessment Promotion scheme for Scientists.
- e. Deserving candidates may be considered for advance increment as per extant CSIR Rules.

2. Other conditions:

- a. The applicant must be a citizen of India.
- b. All applicants must fulfill the essential requirements of the post and other conditions stipulated in the advertisement. They are advised to satisfy themselves before applying that they possess at least the essential qualifications laid down for various posts as on the last date of receipt of applications. No enquiry asking for advice as to eligibility will be entertained. The prescribed essential qualifications are the minimum and the mere possession of the same does not entitle candidates to be called for interview. The duly constituted Screening Committee will adopt its own criteria for short-listing the candidates. The candidate should therefore mention in the application all the qualifications and experiences in the relevant area over and above the minimum prescribed qualification, supported with documents. Completion of Ph.D degree will be reckoned from the date of issue of provisional certificate/notification.
- c. The application should be accompanied by self attested copies of certificates of the relevant educational qualification, experience. The prescribed qualification should have been obtained through recognized Universities / Institutions etc. **Incomplete applications / applications received and not accompanied with the required certificates / documents are liable to be rejected.**
- d. In respect of equivalent clause in Essential Qualifications, if a candidate is claiming a particular qualification as equivalent qualification as per the requirement of advertisement, then the candidate is required to produce order/letter in this regard, indicating the Authority (with number and date) under which it has been so treated otherwise the Application is liable to be rejected.
- e. The period of experience rendered by a candidate on part time basis, daily wages, visiting / guest faculty will not be counted while calculating the valid experience for short listing the candidates for interview.
- f. If any document/certificate furnished is in a language other than Hindi or English, a transcript of the same duly attested is to be submitted.
- g. The date for determining the upper age limit, qualification and / or experience shall be the closing date prescribed for receipt of applications i.e. **07-01-2018**
- h. **The period of experience in a discipline / area of work, wherever prescribed, shall be counted after the date of acquiring the minimum prescribed educational qualification prescribed for that Grade.**
- i. Candidate must ensure that he / she possesses educational qualification / experience in the relevant areas as required in the post, for which he/she is applying, on the last date of receipt of application.
- j. Persons with Benchmark Disabilities (PWD) fulfilling the eligibility conditions prescribed under GOI instructions are encouraged to apply.
- k. The posts carry usual allowances as admissible to Central Government employees as have been made applicable to CSIR employees.
- l. The posts will be governed by the New Pension Scheme applicable w.e.f. 01.01.2004 as notified by the Government of India and adopted by CSIR vide their letter No. 17/68/2001-E.II dated 23.12.2003 and other instructions issued on the subject.

- m. Only outstation candidates called and found eligible for interview will be paid to and fro single second class rail fare from the actual place of undertaking the journey or from the normal place of their residence whichever is nearer to the Railway Station of Durgapur / place of interview on production of Rail Tickets/Rail Ticket Numbers or any other proof of journey.
- n. Any discrepancy found between the information given in application and as evident in original documents will make the candidate ineligible for appearing in interview. Such candidate will not be paid any fare.
- o. The number of vacancies indicated against each Post Code is provisional and may vary at the time of selection.
- p. The decision of the CSIR-CMERI/CSIR in all matters relating to eligibility, acceptance or rejection of applications, mode of selection, conduct of examination / interview will be final and binding on the candidates.
- q. Canvassing in any form and/or bringing any influence political or otherwise will be treated as a disqualification for the post.
- r. NO INTERIM ENQUIRY OR CORRESPONDENCE WILL BE ENTERTAINED.

3. **Relaxations:**

- a. The upper age limit is relaxable up to 5 years for SC/ST and 03 years for OBC as per Government orders in force **only in those cases where the post are reserved for respective categories**, on production of relevant certificate in the prescribed format signed by the specified authority at the time of interview.
- b. Upper age limit is also relaxable up to five years for the regular employees working in CSIR Laboratories/Institutes, Government Departments, Autonomous Bodies and Public Sector Undertakings as per CSIR/GOI guidelines.
- c. As per GOI provisions, age relaxation for Widows, Divorced Women and Women judicially separated from Husbands, the upper age limit is relaxable up to the age of 35 years (up to 40 years for members of Scheduled Castes and up to 38 years for members belonging to the Other Backward Classes in respect of the posts reserved for them) for widows, divorced Women and Women Judicially separated from their Husbands who are not remarried. The persons claiming age relaxation under this sub-para would be required to produce following documentary evidence.
 - I. In case of Widow, Death Certificate of her husband together with the Affidavit that she has not remarried since.
 - II. In case of divorced Women and Women judicially separated from their husbands, a certified copy of the judgment/decreed of the appropriate Court to prove the fact of divorce or the judicial separation, as the case may be, with an Affidavit in respect of divorced Women and they have not remarried since.
- d. Age relaxation to Person with Benchmark Disabilities (PWD): Age relaxation of 10 years (15 years for SC/ST and 13 years for OBC candidates as per rules) in upper age limit shall be allowed to persons suffering from the following benchmark disabilities as per GOI instructions:
 - (i) *blindness and low vision;*
 - (ii) *deaf and hard of hearing;*
 - (iii) *locomotor disability including cerebral palsy, leprosy cured, dwarfism, acid attack victims and muscular dystrophy;*
 - (iv) *autism, intellectual disability, specific learning disability and mental illness;*
 - (v) *multiple disabilities from amongst persons under clauses (a) to (d) including deaf-blindness.*

The persons claiming age relaxation under this sub-para would be required to produce a certificate in prescribed proforma in support of their claims clearly indicating that the degree of physical disability is 40% or more. In any case, the appointment of these candidates will be subject to their being found medically fit in accordance with the standards of medical fitness as prescribed by the Government for each individual Group 'A' posts to be filled by Direct Recruitment by Selection.

- e. SC/ST/OBC/PWD candidates are required to produce a copy of the certificate in the prescribed format signed by the specified authority at the time of interview. The OBC candidate should produce the certificate valid for appointment of posts under the Central Government.
- f. Relaxation in age, over and above the stipulated limit, educational qualification and /or experience may be considered in case of exceptionally meritorious candidates or if sufficient number of candidates possessing the requisite qualification and / or experience are not likely to be available to fill up the posts.

- g. Relaxation in the upper age limit of 5 years applicable for persons who had ordinarily been domiciled in the Kashmir division of the State of J&K during the period 01-01-1980 to 31-12-1989 subject to production of a certificate from the District Magistrate in Kashmir Division within whose jurisdiction he/she had ordinarily resided or from any other authority designated in this behalf by the Government of J&K to the effect that he/she had ordinarily been domiciled in the Kashmir Division of the State of J&K during the period from 01-01-1980 to 31-12-1989.

4. **Mode of Selection:**

Mere fulfillment of educational qualifications and experience does not entitle a candidate to be called for interview. The duly constituted screening Committee will adopt its own criteria for short-listing the candidates. The candidate should, therefore, mention in the application all the qualifications and experience in the relevant area over and above the minimum prescribed qualification, supported with documents. Completion of Ph.D degree will be reckoned from the date of issue of provisional certificate/notification.

- a. In the event of number of applications being large, CSIR-CMERI may adopt short listing criteria to restrict the number of candidates to be called for interview to a reasonable number by any or more of the following methods:
- i. On the basis of higher educational qualifications than the minimum prescribed in the advertisement.
 - ii. On the basis of higher experience in the relevant field than the minimum prescribed in the advertisement.
 - iii. By holding a written Test.
 - iv. Any other methodology as deemed fit by Screening Committee.
- b. In case a candidate is staying abroad, his/her candidature may be considered in absentia by the Selection Committee on his/her written request.
- c. The screening of the candidates will be done prima facie on the basis of documents and information furnished by the candidates. If at any subsequent date it is discovered that the candidates do not fulfill the eligibility criteria, their candidature shall be cancelled without assigning any reason whatsoever.

5. **How to apply:**

- a) Eligible candidates are required to apply ONLINE through our website <http://www.cmeri.res.in>. No other mode of application will be considered.
- b) Candidates are advised to go through the instructions for online filling of the application carefully.
- c) Online Application will be available on CSIR-CMERI website www.cmeri.res.in. (Opens on **00-11-2018** from 09.30 a.m. and Closes on **07-01-2019** at 05.00 p.m. It is mandatory to take the print out of the successfully submitted online application form, sign the same and attach the self attested mandatory documents {As mentioned in SI No 6, as applicable}. The print out of the application along with the relevant documents must reach CSIR-CMERI on or before **17-01-2019**).
- d) A non-refundable application fee of Rs. 100/- (one Hundred) only wherever applicable may be deposited through <https://www.onlinesbi.com/prelogin/collecthome.htm?corpID=377679> and printed copy of e-receipt of the same must be enclosed with the application. The candidates belonging to SC/ST/PWD/Women/CSIR Employees/Candidates otherwise eligible but residing abroad are exempted from submission of application fee.
- e) Candidate are required to upload his/her recent passport size scanned photograph (max size 150 KB) at the specified place in the online application.
- f) In case of Universities/Institute awarding CGPA/SGPA/OGPA grades etc., candidates are required to convert the same into percentage based on the formula as per their University/Institute. Details are to be mentioned by the candidates at the appropriate place in the online application format, while submitting the same.
- g) Candidates should keep a copy of the application print-out and payment details, if any, for their record. Print-out of Application and payment details will not be available after 05.00 p.m. on the last date of online Application i.e. **07-01-2019**.
- h) Application once made will not be allowed to be withdrawn and fee once paid will not be refunded on any count nor can it be held in reserve for any other recruitment or selection process.

- i) Any change/edit in the application form after the finally submission of the online application will not be considered by the Institute.
- j) Only a single application will be entertained from each candidate for each postcode. IN CASE A CANDIDATE SUBMITS MULTIPLE ONLINE APPLICATIONS FOR A SINGLE POSTCODE WITH DIFFERENT REGISTRATION NUMBERS AND/OR WITH DIFFERENT EMAIL IDS, ONLY THE LATEST COMPLETED APPLICATION WILL BE CONSIDERED.
- k) A candidate can apply for multiple Post Codes subject to fulfilling all eligibility criterion attached to each individual Post Code. The candidate needs to submit the primary/registration details only once in online application even while applying for more than one post code. However, candidate needs to fill the application (except primary/registration details) again and pay the application fee separately for each Post Code.
- l) The print out of the successfully submitted online Application duly signed must be accompanied by self attested copies of the certificates, mark sheets, testimonials in support of age, education qualifications, experience and caste certificate, if applicable, (as mentioned in SI No 6 below) together with E-RECEIPT of the Application fees, (if applicable) should be sent in an envelope superscribed "APPLICATION FOR THE POST OF - _____ (Post Code _____)" '**Advertisement No. 04/2018**' by post to the address given below, separately for each post code, in case a candidate applies for multiple post codes.

**The Administrative Officer,
CSIR-Central Mechanical Engineering Research Institute Mahatma
Gandhi Avenue,
Durgapur – 713 209 (West Bengal)**

- m) Applicants must provide detailed information at the appropriate place in the online application regarding his/her relative, if any, working in CSIR, like name, designation, name of the CSIR Lab, where posted, relationship with the candidate.
- n) **Incomplete applications (i.e. Printout of the complete online application form, without photograph, unsigned, without application fee, if applicable, and without the attachments as mentioned under point 6 below etc.) will not be entertained and are liable to be summarily rejected.**
- o) Receipt of hard copy of application along with relevant documents within the stipulated date i.e. **17-01-2019** is essential failing which their candidature will not be considered by this Institute.
- p) Candidates should specifically note that the applications received after the closing date for any reason whatsoever (such as envelopes wrongly addressed, delivered elsewhere, postal delay etc.) will not be entertained by the Institute.
- q) Applications from employees of Government Department will be considered only if forwarded through proper channel, certified by the employer that the applicant, if selected, will be relieved within one month of the receipt of the appointment orders. Vigilance Clearance should also be recorded. However, advance copy of the application may be submitted before the closing date. Applications routed through proper channel should reach CSIR-Central Mechanical Engineering Research Institute, Durgapur at the earliest. Further, such candidates, when shortlisted for interview, will be required invariably to furnish a clear 'No Objection Certificate' from their employer failing which **they will not be allowed for interview**.
- r) Candidates claiming of their involvement in Product Development / Technology Innovation / Translational Research/Applied Technology etc. in their application have to substantiate their claim sufficiently. Therefore, all such candidates must furnish the requisite information in the prescribed format available on Institute website as Annexure – I duly authenticated by the Competent Authority failing which no weightage would be given to the candidates for such claims.

6. Following documents must be attached along with the printout of the application form:

- a) The printed copy of e-receipt for the application fee of ₹100/- .
- b) Self Attested photocopy of certificate proving Date of Birth.
- c) Self Attested photocopies of educational qualification (Certificates & Marks Sheets).
- d) Conversion formula of CGPA/SGPA/OGPA/DGPA/CPI grades etc into percentage, issued by the University
- e) Self Attested photocopy of caste certificate, if applicable.
- f) Self Attested photocopies of experience certificates, wherever required.
- g) Particulars of Product / Technology Development / Innovation etc. in the prescribed format (Annexure – I)

Administrative Officer